

CLAIM AMENDMENT

1. (Previously Presented) A filament retaining washer for mounting about the shank of a bone screw deployed in a bone whereby to retain the filament to the bone, said filament retaining washer comprising:

a structure having a screw hole extending therethrough for receiving therein the shank of the bone screw deployed in the bone, whereby to secure said structure to said bone, said screw hole defining a first axis, and said structure having a filament hole extending therethrough for receiving a filament therein so as to retain said filament to said structure, said filament hole defining a second axis extending substantially perpendicular to said first axis, with said second axis being aligned with a bone screw extending through the screw hole, said structure having a top surface and a bottom surface, a portion of said bottom surface of said structure having a downwardly extending projection adapted to engage a top surface of a bone plate, and a downwardly extending projection adapted to seat in a recess formed in the top surface of the bone plate.

2. (Previously Presented) A filament retaining washer for mounting about the shank of a bone screw deployed in a bone whereby to retain the filament to the bone, said filament retaining washer comprising:

a body;

a downwardly projecting extension connected to said body and having a screw hole extending therethrough for receiving therein the shank of the bone screw deployed in the bone, whereby to secure said downwardly projecting extension to said bone, said screw hole defining a first axis, said downwardly projecting extension having a top surface and a bottom surface, and said bottom surface of said downwardly projecting extension being adapted to engage a top surface of a bone plate; and

an upwardly projecting extension connected to said body and having a filament hole extending therethrough for receiving a filament therein so as to retain said filament to said upwardly projecting extension, said filament hole defining a second axis extending substantially perpendicular to said first axis, with said second axis being aligned with a bone screw extending through the screw hole.

3. (Previously Presented) The filament retaining washer of claim 2 wherein said bottom surface of said downwardly projecting extension has a semi-spherical configuration similar to the semi-spherical underside of the head of the bone screw so as to seat in a recess formed in the top surface of the bone plate.

4. (Original) The filament retaining washer of claim 2 wherein said body forms a recess aligned with said screw hole.

5. (Original) The filament retaining washer of claim 2 wherein the filament is a suture.

6. (Original) The filament retaining washer of claim 2 wherein the filament is a cable.

7. (Original) The filament retaining washer of claim 6 wherein said upwardly projecting extension is configurable so as to restrain the cable within said filament hole.

8. (Original) The filament retaining washer of claim 7 wherein said upwardly projecting extension contains a set screw hole communicating with said filament hole, and a set screw disposed in said set screw hole for selectively engaging said cable so as to lock said cable relative to said upwardly projecting extension.

9. (Original) The filament retaining washer of claim 7 wherein said upwardly projecting extension is crimpable.

10. (Original) The filament retaining washer of claim 9 wherein said crimpable upwardly projecting extension has a trapezoidal cross-section.

11. (Original) The filament retaining washer of claim 2 further comprising a second upwardly projecting extension connected to said body and having a filament hole extending therethrough.

12. (Previously Presented) A system for securing an object to a bone, said system comprising:

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a bone screw;

a washer comprising:

a body;

a downwardly projecting extension connected to said body and having a screw hole extending therethrough for receiving therein the shank of said bone screw deployed in the bone, whereby to secure said downwardly projecting extension to said bone, said screw hole defining a first axis, with said first axis being aligned with a bone screw extending through the screw hole; and an upwardly projecting extension connected to said body and having a filament hole extending therethrough, for receiving a filament therein so as to retain said filament to said upwardly projecting extension, said filament hole defining a second axis extending substantially perpendicular to said first axis; and a filament received by said filament hole, said filament securing the object to said bone.

13. (Original) The system of claim 12 wherein said downwardly projecting extension has a semi-spherical configuration similar to the semi-spherical underside of the head of the bone screw.

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14. (Original) The system of claim 12 wherein said body forms a recess aligned with said screw hole, said recess receiving the head of the bone screw.

15. (Original) The system of claim 12 wherein the filament is a suture.

16. (Original) The system of claim 12 wherein the filament is a cable.

17. (Original) The system of claim 16 wherein said upwardly projecting extension is configurable so as to restrain the cable within said filament hole.

18. (Original) The system of claim 17 wherein said upwardly projecting extension contains a set screw hole communicating with said filament hole, and a set screw disposed in said set screw hole for selectively engaging said cable so as to lock said cable relative to said upwardly projecting extension.

19. (Original) The system of claim 17 wherein said upwardly projecting extension is crimpable.

20. (Original) The system of claim 19 wherein said crimpable upwardly projecting extension has a trapezoidal cross-section.

21. (Original) The system of claim 12 further comprising a second upwardly projecting extension connected to said body and having a filament hole extending therethrough.

22. (Original) The system of claim 12 further comprising a bone plate having a hole extending therethrough, with the shank of said bone screw passing therethrough, and said filament retaining washer being secured about the shank of said bone screw, between said bone and the head of said bone screw.

23. (Original) The system of claim 15 wherein said suture holds a piece of mesh to the bone.

24. (Original) A method for securing an object to a bone, said method comprising: providing a screw, a filament and a suture retaining washer, said suture retaining washer comprising: a body; a downwardly projecting extension connected to said body and having a screw hole extending therethrough for receiving therein the shank of a bone screw deployed in the bone, whereby to secure said downwardly projecting extension to said bone, said screw hole defining a first axis; and an upwardly projecting extension connected to said body and having a filament hole extending therethrough for receiving a filament therein so as to retain said filament to said upwardly projecting extension, said filament hole defining a second axis extending substantially perpendicular to said first axis, with said second axis being aligned with a bone screw extending through the screw hole; securing said washer to the bone with said screw, with said filament extending through said filament hole; and using said filament to secure the object to the bone.

25. (Original) The method of claim 24 wherein said filament is a cable, and further comprising the step of locking said cable to said suture retaining washer.



26. (Original) The method of claim 24 wherein said filament is suture.

27. (Original) The method of claim 26 wherein said object is a piece of soft tissue.

28. (Original) The method of claim 26 wherein said object is a piece of mesh.

29. (Original) The filament retaining washer of claim 2 wherein said downwardly projecting extension is configured to engage a corresponding recess formed in a bone plate so as to prevent rotation of said filament retaining washer relative to the bone plate.

30. (Original) The system of claim 12 wherein said downwardly projecting extension is configured to engage a corresponding recess formed in a bone plate so as to prevent rotation of said filament retaining washer relative to the bone plate.

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31. (Original) The filament retaining washer of claim 6 wherein said cable is braided cable.

32. (Original) The filament retaining washer of claim 6 wherein said cable is wire.

33. (Original) The system of claim 16 wherein said cable is braided cable.

34. (Original) The system of claim 16 wherein said cable is wire.

35. (Previously Presented) The method of claim 25 wherein the object is bone.

36. (Original) The method of claim 24 wherein said washer is secured to said bone so that said washer is countersunk into the bone.

37. (Canceled)

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38. (Previously Presented) A filament retaining washer for mounting about the shank of a bone screw deployed in a bone whereby to retain the filament to the bone, said filament retaining washer comprising:

a body;

a downwardly projecting extension connected to said body and having a screw hole extending therethrough for receiving therein the shank of the bone screw deployed in the bone, whereby to secure said downwardly projecting extension to said bone, said screw hole defining a first axis, said downwardly projecting extension having a top surface and a bottom surface, and said bottom surface of said downwardly projecting extension being adapted to engage a top surface of a bone plate; and

an upwardly projecting extension connected to said body and having a filament hole extending therethrough for receiving a filament therein so as to retain said filament to said upwardly projecting extension, said filament hole defining a second axis extending substantially perpendicular to said first axis, with said upwardly projecting extension being displaced laterally and longitudinally from said downwardly projecting extension.

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39. (Previously Presented) A filament retaining washer for mounting about the shank of a bone screw deployed in a bone whereby to retain the filament to the bone, said filament retaining washer comprising: a structure having a screw hole extending therethrough for receiving therein the shank of the bone screw deployed in the bone, whereby to secure said structure to said bone, said screw hole defining a first axis, and said structure having a filament hole so as to retain said filament to said structure, said filament hole defining a second axis extending substantially perpendicular to said first axis, with said second axis extending parallel to a third axis extending through said first axis, said structure having a top surface and a bottom surface, and said bottom surface of said structure having a downwardly extending projection adapted to engage a top surface of a bone plate having a recess formed therein.

40. (Previously Presented) A filament retaining washer according to claim 39 wherein said screw hole comprises a spherical recess about said top surface of said structure for  
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receiving therein the underside of the head of a bone screw whose shank passes through the screw hole.

41. (Original) A filament retaining washer according to claim 39 wherein said washer has a diameter substantially the same as the head of a bone screw whose shank is sized to pass through the screw hole.

42. (Original) A filament retaining washer according to claim 39 wherein said filament hole comprises a pair of openings extending through said structure, wherein said pair of openings are aligned with one another along said second axis.

43. (Original) A filament retaining washer according to claim 39 wherein said filament hole is configured so that a filament extending therethrough will be locked to the washer when a bone screw extending through the screw hole is fully tightened down.

44. (Original) A filament retaining washer according to claim 39 wherein said filament hole is configured so that a  
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filament extending therethrough will be movable relative to the washer when a bone screw extending through the screw hole is fully tightened down.

45. (Previously Presented) A filament retaining washer for mounting about the shank of a bone screw deployed in a bone whereby to retain the filament to the bone, said filament retaining washer comprising:

a body;

a downwardly projecting extension connected to said body and having a screw hole extending therethrough for receiving therein the shank of the bone screw deployed in the bone, whereby to secure said downwardly projecting extension to said bone, said screw hole defining a first axis; and

an upwardly projecting extension connected to said body and having a filament hole extending therethrough for receiving a filament therein so as to retain said filament to said upwardly projecting extension, said filament hole defining a second axis extending substantially perpendicular to said first axis, with said second axis being aligned with a bone screw extending through the screw hole;

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wherein said downwardly projecting extension is configured to engage a corresponding recess formed in a bone plate so as to prevent rotation of said filament retaining washer relative to the bone plate.